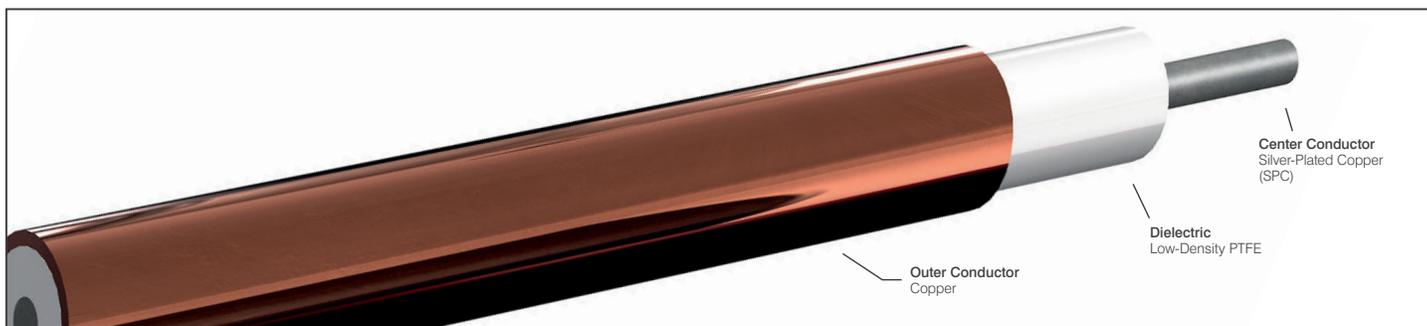


Low-Loss Semi-Rigid Coaxial Cables

P/N UT-250C-LL | 50 Ω Copper Outer Conductor

INTRODUCTION



Low-loss semi-rigid cables provide lower attenuation, better phase stability with temperature, and a higher operating temperature compared to traditional solid PTFE semi-rigid cables.

Our low-loss semi-rigid cables are available with a copper, tin-plated copper, aluminum, or tin-plated aluminum outer conductor.

DIMENSIONS

Outer Conductor Diameter	in	0.250 ± 0.002
	mm	6.350 ± 0.051
Center Conductor Diameter	in	0.0720
	mm	1.8288
Length (Maximum)	Feet	20
	Meter	6.10

MATERIALS

Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	LD PTFE
Center Conductor	SPC
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*

Outer Conductor Integrity Temp.	°C	250
Operating Temperature (Max)	°C	250
Inside Bend Radius (Minimum)	in	0.750
	mm	19.050
Weight	lbs / 100ft	9.40
	kg / 100m	14.11

* Applicable at room temperature. Contact factory for performance over temperature range.

ELECTRICAL CHARACTERISTICS*

Characteristic Impedance	ohm	50
Capacitance	pF / ft	26.5
	pF / m	86.8
Corona Extinction Voltage	VRMS @ 60 Hz	5200
Voltage Withstanding	VRMS @ 60 Hz	15600
Higher Order Mode Frequency	GHz	20.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	3.9
	@ 1.0 GHz	5.6
	@ 5.0 GHz	13.1
	@ 10.0 GHz	19.3
	@ 18.0 GHz	26.9
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	2130.7
	@ 1.0 GHz	1492.3
	@ 5.0 GHz	641.5
	@ 10.0 GHz	440.9
	@ 18.0 GHz	318.1
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A